



Tuesday, May 15, 2012

Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

Project ID: SATIN  
Sample ID#s: BB79929 - BB79946

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. All soils and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 13:20  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79929

Project ID: SATIN

Client ID: N-17 0-1

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	96		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	0.52	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	129		%	05/08/12		MH	30 - 150 %
% TCMX	100		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-17 0-1

Phoenix I.D.: BB79929

Parameter	Result	RL	Units	Date	Time	By	Reference
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Comments:

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 13:22  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79930

Project ID: SATIN  
Client ID: N-17 1-2

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	91		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	117		%	05/08/12		MH	30 - 150 %
% TCMX	97		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-17 1-2

Phoenix I.D.: BB79930

Parameter	Result	RL	Units	Date	Time	By	Reference
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### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 13:24  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79931

Project ID: SATIN  
Client ID: N-17 5-6

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	75		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	0.42	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.42	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.42	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.42	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.42	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.42	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.42	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.42	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.42	mg/Kg	05/08/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	105		%	05/08/12		MH	30 - 150 %
% TCMX	78		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-17 5-6

Phoenix I.D.: BB79931

Parameter	Result	RL	Units	Date	Time	By	Reference
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### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date

05/01/12

Time

13:26

05/02/12

14:55

### Laboratory Data

SDG ID: GBB79929

Phoenix ID: BB79932

Project ID: SATIN

Client ID: N-17 6-7

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	26		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	0.64	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.64	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.64	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.64	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.64	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.64	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.64	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.64	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.64	mg/Kg	05/08/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	83		%	05/08/12		MH	30 - 150 %
% TCMX	66		%	05/08/12		MH	30 - 150 %



Project ID: SATIN  
Client ID: N-17 6-7

Phoenix I.D.: BB79932

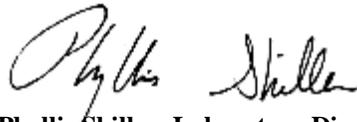
Parameter	Result	RL	Units	Date	Time	By	Reference
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Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 12:04  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79933

Project ID: SATIN  
Client ID: N-18 0-1

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	91		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	0.36	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.36	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.36	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.36	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.36	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.36	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.36	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.36	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.36	mg/Kg	05/08/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	125		%	05/08/12		MH	30 - 150 %
% TCMX	100		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-18 0-1

Phoenix I.D.: BB79933

Parameter	Result	RL	Units	Date	Time	By	Reference
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Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 12:06  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79934

Project ID: SATIN  
Client ID: N-18 1-2

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	92		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	18	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	Diluted Out		%	05/08/12		MH	30 - 150 %
% TCMX	Diluted Out		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-18 1-2

Phoenix I.D.: BB79934

Parameter	Result	RL	Units	Date	Time	By	Reference
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## Analysis Report

May 15, 2012

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Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 12:08  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79935

Project ID: SATIN

Client ID: N-18 2-2.5

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	86		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C

### PCB (Soxhlet)

PCB-1016	ND	0.37	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.37	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.37	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.37	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.37	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.37	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.37	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.37	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.37	mg/Kg	05/08/12		MH	3540C/8082

### QA/QC Surrogates

% DCBP	76		%	05/08/12		MH	30 - 150 %
% TCMX	79		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-18 2-2.5

Phoenix I.D.: BB79935

Parameter	Result	RL	Units	Date	Time	By	Reference
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Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 12:10  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79936

Project ID: SATIN

Client ID: N-18 5-5.4

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	28		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C

### PCB (Soxhlet)

PCB-1016	ND	0.58	mg/Kg	05/09/12		MH	3540C/8082
PCB-1221	ND	0.58	mg/Kg	05/09/12		MH	3540C/8082
PCB-1232	ND	0.58	mg/Kg	05/09/12		MH	3540C/8082
PCB-1242	ND	0.58	mg/Kg	05/09/12		MH	3540C/8082
PCB-1248	ND	0.58	mg/Kg	05/09/12		MH	3540C/8082
PCB-1254	ND	0.58	mg/Kg	05/09/12		MH	3540C/8082
PCB-1260	0.83	0.58	mg/Kg	05/09/12		MH	3540C/8082
PCB-1262	ND	0.58	mg/Kg	05/09/12		MH	3540C/8082
PCB-1268	ND	0.58	mg/Kg	05/09/12		MH	3540C/8082

### QA/QC Surrogates

% DCBP	106		%	05/09/12		MH	30 - 150 %
% TCMX	77		%	05/09/12		MH	30 - 150 %



Project ID: SATIN  
Client ID: N-18 5-5.4

Phoenix I.D.: BB79936

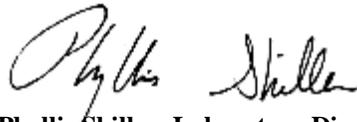
Parameter	Result	RL	Units	Date	Time	By	Reference
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6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 11:56  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79937

Project ID: SATIN

Client ID: N-19 0.4-1

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	92		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	78		%	05/08/12		MH	30 - 150 %
% TCMX	89		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-19 0.4-1

Phoenix I.D.: BB79937

Parameter	Result	RL	Units	Date	Time	By	Reference
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Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 12:00  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79938

Project ID: SATIN

Client ID: N-19 5-5.5

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	26		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C

### PCB (Soxhlet)

PCB-1016	ND	0.6	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.6	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.6	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.6	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.6	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.6	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.6	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.6	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.6	mg/Kg	05/08/12		MH	3540C/8082

### QA/QC Surrogates

% DCBP	62		%	05/08/12		MH	30 - 150 %
% TCMX	81		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-19 5-5.5

Phoenix I.D.: BB79938

Parameter	Result	RL	Units	Date	Time	By	Reference
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Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date

05/01/12 11:46  
05/02/12 14:55

Time

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79939

Project ID: SATIN

Client ID: N-20 0.3-1

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	90		%	05/02/12		JL	E160.3
Soil Extraction SVOA BN	Completed			05/09/12		RB/F	SW3545
Extraction of CT ETPH	Completed			05/09/12		BS/F	3545
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C

### TPH by GC (Extractable Products)

Ext. Petroleum HC	7700	220	mg/Kg	05/11/12		JRB	CT ETPH/8015
Identification	**		mg/Kg	05/11/12		JRB	CT ETPH/8015

### QA/QC Surrogates

% n-Pentacosane	Diluted Out		%	05/11/12		JRB	50 - 150 %
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### PCB (Soxhlet)

PCB-1016	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	4.8	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082

### QA/QC Surrogates

% DCBP	Diluted Out		%	05/08/12		MH	30 - 150 %
% TCMX	Diluted Out		%	05/08/12		MH	30 - 150 %

### Polynuclear Aromatic HC

2-Methylnaphthalene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Acenaphthene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Acenaphthylene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270

Parameter	Result	RL	Units	Date	Time	By	Reference
Anthracene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Benz(a)anthracene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Benzo(a)pyrene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Benzo(b)fluoranthene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Benzo(ghi)perylene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Benzo(k)fluoranthene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Chrysene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Fluoranthene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Fluorene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Naphthalene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Phenanthrene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
Pyrene	ND	2.5	mg/Kg	05/10/12		DD	SW 8270
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	*Diluted Out		%	05/10/12		DD	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	05/10/12		DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	05/10/12		DD	30 - 130 %

**Comments:**

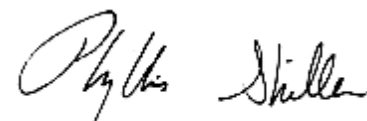
\* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

\*\*Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C12 to C28 range. The sample was quantitated against a C9-C36 standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date

05/01/12 11:48  
05/02/12 14:55

Time

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79940

Project ID: SATIN

Client ID: N-20 1-1.5

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	91		%	05/02/12		JL	E160.3
Soil Extraction SVOA BN	Completed			05/09/12		RB/F	SW3545
Extraction of CT ETPH	Completed			05/09/12		BS/F	3545
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C

### TPH by GC (Extractable Products)

Ext. Petroleum HC	1100	110	mg/Kg	05/10/12		JRB	CT ETPH/8015
Identification	**		mg/Kg	05/10/12		JRB	CT ETPH/8015

### QA/QC Surrogates

% n-Pentacosane	Diluted Out		%	05/10/12		JRB	50 - 150 %
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### PCB (Soxhlet)

PCB-1016	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.34	mg/Kg	05/08/12		MH	3540C/8082

### QA/QC Surrogates

% DCBP	62		%	05/08/12		MH	30 - 150 %
% TCMX	66		%	05/08/12		MH	30 - 150 %

### Polynuclear Aromatic HC

2-Methylnaphthalene	ND	1.3	mg/Kg	05/10/12		DD	SW 8270
Acenaphthene	ND	1.3	mg/Kg	05/10/12		DD	SW 8270
Acenaphthylene	9.2	1.3	mg/Kg	05/10/12		DD	SW 8270



Parameter	Result	RL	Units	Date	Time	By	Reference
Anthracene	11	1.3	mg/Kg	05/10/12		DD	SW 8270
Benz(a)anthracene	28	1.3	mg/Kg	05/10/12		DD	SW 8270
Benzo(a)pyrene	28	1.3	mg/Kg	05/10/12		DD	SW 8270
Benzo(b)fluoranthene	33	1.3	mg/Kg	05/10/12		DD	SW 8270
Benzo(ghi)perylene	9.2	1.3	mg/Kg	05/10/12		DD	SW 8270
Benzo(k)fluoranthene	14	1.3	mg/Kg	05/10/12		DD	SW 8270
Chrysene	24	1.3	mg/Kg	05/10/12		DD	SW 8270
Dibenz(a,h)anthracene	2.7	1.3	mg/Kg	05/10/12		DD	SW 8270
Fluoranthene	61	1.3	mg/Kg	05/10/12		DD	SW 8270
Fluorene	5	1.3	mg/Kg	05/10/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	8.6	1.3	mg/Kg	05/10/12		DD	SW 8270
Naphthalene	1.3	1.3	mg/Kg	05/10/12		DD	SW 8270
Phenanthrene	43	1.3	mg/Kg	05/10/12		DD	SW 8270
Pyrene	56	1.3	mg/Kg	05/10/12		DD	SW 8270
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	86		%	05/10/12		DD	30 - 130 %
% Nitrobenzene-d5	81		%	05/10/12		DD	30 - 130 %
% Terphenyl-d14	93		%	05/10/12		DD	30 - 130 %

**Comments:**

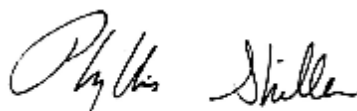
\* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

\*\*Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C9 to C36 range. The sample was quantitated against a C9-C36 standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 15:10  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79941

Project ID: SATIN

Client ID: N-35 5.8-6

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	59		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	0.55	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.55	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.55	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.55	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.55	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.55	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.55	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.55	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.55	mg/Kg	05/08/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	87		%	05/08/12		MH	30 - 150 %
% TCMX	90		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-35 5.8-6

Phoenix I.D.: BB79941

Parameter	Result	RL	Units	Date	Time	By	Reference
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Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 15:12  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79942

Project ID: SATIN

Client ID: N-35 6.5-7

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	93		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C

### PCB (Soxhlet)

PCB-1016	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.35	mg/Kg	05/08/12		MH	3540C/8082

### QA/QC Surrogates

% DCBP	63		%	05/08/12		MH	30 - 150 %
% TCMX	64		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-35 6.5-7

Phoenix I.D.: BB79942

Parameter	Result	RL	Units	Date	Time	By	Reference
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Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 14:50  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79943

Project ID: SATIN

Client ID: N-36 0.3-0.6

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	93		%	05/02/12		JL	E160.3
Soxhlet Extraction for PCB	Completed			05/04/12		*/*	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	15	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	1.7	mg/Kg	05/08/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	Diluted Out		%	05/08/12		MH	30 - 150 %
% TCMX	Diluted Out		%	05/08/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-36 0.3-0.6

Phoenix I.D.: BB79943

Parameter	Result	RL	Units	Date	Time	By	Reference
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Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date

05/01/12 14:52  
05/02/12 14:55

Time

## Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79944

Project ID: SATIN

Client ID: N-36 1-1.2

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	96		%	05/02/12		JL	E160.3
Soil Extraction SVOA BN	Completed			05/09/12		RB/F	SW3545
Extraction of CT ETPH	Completed			05/09/12		BS/F	3545
Soxhlet Extraction for PCB	Completed			05/04/12		*/	SW3540C

### TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	21	mg/Kg	05/11/12		JRB	CT ETPH/8015
Identification	ND		mg/Kg	05/11/12		JRB	CT ETPH/8015

### QA/QC Surrogates

% n-Pentacosane	130		%	05/11/12		JRB	50 - 150 %
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### PCB (Soxhlet)

PCB-1016	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1221	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1232	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1242	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1248	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1254	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1260	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1262	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082
PCB-1268	ND	0.33	mg/Kg	05/08/12		MH	3540C/8082

### QA/QC Surrogates

% DCBP	64		%	05/08/12		MH	30 - 150 %
% TCMX	69		%	05/08/12		MH	30 - 150 %

### Polynuclear Aromatic HC

2-Methylnaphthalene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Acenaphthene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Acenaphthylene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270



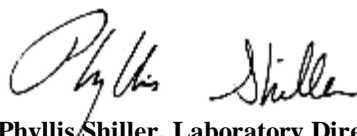
Parameter	Result	RL	Units	Date	Time	By	Reference
Anthracene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Benz(a)anthracene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Benzo(a)pyrene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Benzo(b)fluoranthene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Benzo(ghi)perylene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Benzo(k)fluoranthene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Chrysene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Dibenz(a,h)anthracene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Fluoranthene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Fluorene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Naphthalene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Phenanthrene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
Pyrene	ND	0.24	mg/Kg	05/10/12		DD	SW 8270
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	46		%	05/10/12		DD	30 - 130 %
% Nitrobenzene-d5	56		%	05/10/12		DD	30 - 130 %
% Terphenyl-d14	55		%	05/10/12		DD	30 - 130 %

**Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date

05/01/12

Time

14:54

05/02/12

14:55

## Laboratory Data

SDG ID: GBB79929

Phoenix ID: BB79945

Project ID: SATIN

Client ID: N-36 2-3

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	87		%	05/02/12		JL	E160.3
Soil Extraction SVOA BN	Completed			05/09/12		RB/F	SW3545
Extraction of CT ETPH	Completed			05/09/12		BS/F	3545
Extraction for PCB	Completed			05/05/12		KDB/C/K	SW3540C

### TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	22	mg/Kg	05/10/12		JRB	CT ETPH/8015
Identification	ND		mg/Kg	05/10/12		JRB	CT ETPH/8015

### QA/QC Surrogates

% n-Pentacosane	80		%	05/10/12		JRB	50 - 150 %
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### PCB (Soxhlet)

PCB-1016	ND	0.38	mg/Kg	05/07/12		MH	3540C/8082
PCB-1221	ND	0.38	mg/Kg	05/07/12		MH	3540C/8082
PCB-1232	ND	0.38	mg/Kg	05/07/12		MH	3540C/8082
PCB-1242	ND	0.38	mg/Kg	05/07/12		MH	3540C/8082
PCB-1248	ND	0.38	mg/Kg	05/07/12		MH	3540C/8082
PCB-1254	ND	0.38	mg/Kg	05/07/12		MH	3540C/8082
PCB-1260	ND	0.38	mg/Kg	05/07/12		MH	3540C/8082
PCB-1262	ND	0.38	mg/Kg	05/07/12		MH	3540C/8082
PCB-1268	ND	0.38	mg/Kg	05/07/12		MH	3540C/8082

### QA/QC Surrogates

% DCBP	88		%	05/07/12		MH	30 - 150 %
% TCMX	88		%	05/07/12		MH	30 - 150 %

### Polynuclear Aromatic HC

2-Methylnaphthalene	ND	0.27	mg/Kg	05/10/12		DD	SW 8270
Acenaphthene	0.52	0.27	mg/Kg	05/10/12		DD	SW 8270
Acenaphthylene	0.47	0.27	mg/Kg	05/10/12		DD	SW 8270

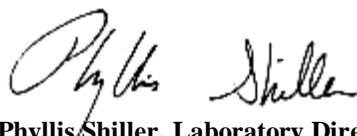
Parameter	Result	RL	Units	Date	Time	By	Reference
Anthracene	2	0.27	mg/Kg	05/10/12		DD	SW 8270
Benz(a)anthracene	5.8	0.27	mg/Kg	05/10/12		DD	SW 8270
Benzo(a)pyrene	4.9	0.27	mg/Kg	05/10/12		DD	SW 8270
Benzo(b)fluoranthene	6.4	0.27	mg/Kg	05/10/12		DD	SW 8270
Benzo(ghi)perylene	1.8	0.27	mg/Kg	05/10/12		DD	SW 8270
Benzo(k)fluoranthene	1.6	0.27	mg/Kg	05/10/12		DD	SW 8270
Chrysene	5.1	0.27	mg/Kg	05/10/12		DD	SW 8270
Dibenz(a,h)anthracene	0.59	0.27	mg/Kg	05/10/12		DD	SW 8270
Fluoranthene	15	0.27	mg/Kg	05/10/12		DD	SW 8270
Fluorene	0.76	0.27	mg/Kg	05/10/12		DD	SW 8270
Indeno(1,2,3-cd)pyrene	1.8	0.27	mg/Kg	05/10/12		DD	SW 8270
Naphthalene	0.31	0.27	mg/Kg	05/10/12		DD	SW 8270
Phenanthrene	12	0.27	mg/Kg	05/10/12		DD	SW 8270
Pyrene	14	0.27	mg/Kg	05/10/12		DD	SW 8270
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	64		%	05/10/12		DD	30 - 130 %
% Nitrobenzene-d5	74		%	05/10/12		DD	30 - 130 %
% Terphenyl-d14	83		%	05/10/12		DD	30 - 130 %

**Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

May 15, 2012

FOR: Attn: Mr. Darrick Jones  
Leggette, Brashears & Graham  
6 Executive Drive  
Farmington CT 06030

### Sample Information

Matrix: SOLID  
Location Code: LBG-PCB  
Rush Request: Standard  
P.O.#:

### Custody Information

Collected by: MS  
Received by: LB  
Analyzed by: see "By" below

Date Time

05/01/12 14:56  
05/02/12 14:55

### Laboratory Data

SDG ID: GBB79929  
Phoenix ID: BB79946

Project ID: SATIN  
Client ID: N-36 5-6

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	88		%	05/02/12		JL	E160.3
Extraction for PCB	Completed			05/05/12		KDB/C/K	SW3540C
<b><u>PCB (Soxhlet)</u></b>							
PCB-1016	ND	0.37	mg/Kg	05/07/12		MH	3540C/8082
PCB-1221	ND	0.37	mg/Kg	05/07/12		MH	3540C/8082
PCB-1232	ND	0.37	mg/Kg	05/07/12		MH	3540C/8082
PCB-1242	ND	0.37	mg/Kg	05/07/12		MH	3540C/8082
PCB-1248	ND	0.37	mg/Kg	05/07/12		MH	3540C/8082
PCB-1254	ND	0.37	mg/Kg	05/07/12		MH	3540C/8082
PCB-1260	ND	0.37	mg/Kg	05/07/12		MH	3540C/8082
PCB-1262	ND	0.37	mg/Kg	05/07/12		MH	3540C/8082
PCB-1268	ND	0.37	mg/Kg	05/07/12		MH	3540C/8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	94		%	05/07/12		MH	30 - 150 %
% TCMX	84		%	05/07/12		MH	30 - 150 %

Project ID: SATIN  
Client ID: N-36 5-6

Phoenix I.D.: BB79946

Parameter	Result	RL	Units	Date	Time	By	Reference
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Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 15, 2012**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

May 15, 2012

### QA/QC Data

SDG I.D.: GBB79929

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 200092, QC Sample No: BB79915 (BB79929, BB79930, BB79931, BB79932, BB79933, BB79934)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	99	99	0.0	90	97	7.5	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	93	94	1.1	*	*	NC	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	103	89	92	3.3	71	74	4.1	30 - 150	30
% TCMX (Surrogate Rec)	110	79	77	2.6	78	84	7.4	30 - 150	30

Comment:

\* The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

QA/QC Batch 200093, QC Sample No: BB79937 (BB79935, BB79936, BB79937, BB79938, BB79939, BB79940, BB79941, BB79942, BB79943, BB79944)

### Polychlorinated Biphenyls - Solid

PCB-1016	ND	102	97	5.0	90	95	5.4	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	106	100	5.8	88	110	22.2	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	114	117	113	3.5	74	76	2.7	30 - 150	30
% TCMX (Surrogate Rec)	92	91	89	2.2	85	87	2.3	30 - 150	30

QA/QC Batch 200052, QC Sample No: BB82196 (BB79945, BB79946)

### Polychlorinated Biphenyls - Solid

PCB-1016	ND	100	101	1.0	120	128	6.5	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	98	100	2.0	111	114	2.7	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	93	79	79	0.0	105	110	4.7	30 - 150	30

# QA/QC Data

SDG I.D.: GBB79929

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% TCMX (Surrogate Rec)	96	80	80	0.0	87	91	4.5	30 - 150	30
QA/QC Batch 200234, QC Sample No: BB83135 (BB79939, BB79940, BB79944, BB79945)									
<u>TPH by GC (Extractable Products) - Solid</u>									
Ext. Petroleum HC	ND	101	105	3.9	107	153	35.4	50 - 150	30 m,r
% n-Pentacosane	102	108	113	4.5	125	174	32.8	50 - 150	30 m,r
QA/QC Batch 200239, QC Sample No: BB83320 (BB79939, BB79940, BB79944, BB79945)									
<u>Polynuclear Aromatic HC - Solid</u>									
2-Methylnaphthalene	ND	83	83	0.0	91	78	15.4	30 - 130	30
Acenaphthene	ND	81	81	0.0	84	79	6.1	30 - 130	30
Acenaphthylene	ND	83	82	1.2	83	79	4.9	30 - 130	30
Anthracene	ND	87	90	3.4	90	85	5.7	30 - 130	30
Benz(a)anthracene	ND	88	88	0.0	90	85	5.7	30 - 130	30
Benzo(a)pyrene	ND	80	80	0.0	82	77	6.3	30 - 130	30
Benzo(b)fluoranthene	ND	96	90	6.5	99	86	14.1	30 - 130	30
Benzo(ghi)perylene	ND	81	87	7.1	93	92	1.1	30 - 130	30
Benzo(k)fluoranthene	ND	90	93	3.3	92	84	9.1	30 - 130	30
Chrysene	ND	80	82	2.5	83	80	3.7	30 - 130	30
Dibenz(a,h)anthracene	ND	93	98	5.2	103	100	3.0	30 - 130	30
Fluoranthene	ND	86	91	5.6	109	102	6.6	30 - 130	30
Fluorene	ND	92	89	3.3	98	93	5.2	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	89	93	4.4	99	96	3.1	30 - 130	30
Naphthalene	ND	86	86	0.0	90	75	18.2	30 - 130	30
Phenanthrene	ND	87	88	1.1	91	87	4.5	30 - 130	30
Pyrene	ND	90	94	4.3	120	112	6.9	30 - 130	30
% 2-Fluorobiphenyl	71	76	75	1.3	70	69	1.4	30 - 130	30
% Nitrobenzene-d5	77	84	86	2.4	83	77	7.5	30 - 130	30
% Terphenyl-d14	93	110	116	5.3	139	130	6.7	30 - 130	30 m

m = This parameter is outside laboratory ms/msd specified recovery limits.

r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

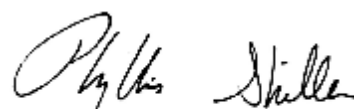
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

May 15, 2012

## Sample Criteria Exceedences Report

Requested Criteria: GAM, RC

GBB79929

SampNo	LocCode	Acode	Phoenix Analyte	Criteria Units	ST	State Category	Criteria Name	Result	RL	Factored Criteria	Factored RL Criteria	Analysis Units
BB79934	LBG-PCB	\$PCB_SOXR	PCB-1016	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79934	LBG-PCB	\$PCB_SOXR	PCB-1221	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79934	LBG-PCB	\$PCB_SOXR	PCB-1232	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79934	LBG-PCB	\$PCB_SOXR	PCB-1242	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79934	LBG-PCB	\$PCB_SOXR	PCB-1248	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79934	LBG-PCB	\$PCB_SOXR	PCB-1254	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79934	LBG-PCB	\$PCB_SOXR	PCB-1260	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	18000	1700	1000	1000	ug/Kg
BB79934	LBG-PCB	\$PCB_SOXR	PCB-1262	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79934	LBG-PCB	\$PCB_SOXR	PCB-1268	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	2-Methylnaphthalene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	ND	2500	980	980	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Benz(a)anthracene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Benz(a)anthracene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Chrysene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Benzo(b)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Benzo(b)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Benzo(k)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Benzo(a)pyrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Benzo(a)pyrene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Indeno(1,2,3-cd)pyrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Indeno(1,2,3-cd)pyrene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Dibenz(a,h)anthracene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$8100SMR	Dibenz(a,h)anthracene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BB79939	LBG-PCB	\$ETPH_SM	Ext. Petroleum HC	mg/kg	CT	Pesticides, Pcb's, Tph, A	GA/GAA PMC (mg/kg)	7700	220	500	500	mg/Kg
BB79939	LBG-PCB	\$ETPH_SM	Ext. Petroleum HC	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	7700	220	500	500	mg/Kg
BB79939	LBG-PCB	\$PCB_SOXR	PCB-1016	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79939	LBG-PCB	\$PCB_SOXR	PCB-1221	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79939	LBG-PCB	\$PCB_SOXR	PCB-1232	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79939	LBG-PCB	\$PCB_SOXR	PCB-1242	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79939	LBG-PCB	\$PCB_SOXR	PCB-1248	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79939	LBG-PCB	\$PCB_SOXR	PCB-1254	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79939	LBG-PCB	\$PCB_SOXR	PCB-1260	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	4800	1700	1000	1000	ug/Kg
BB79939	LBG-PCB	\$PCB_SOXR	PCB-1262	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79939	LBG-PCB	\$PCB_SOXR	PCB-1268	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	2-Methylnaphthalene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	ND	1300	980	980	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Acenaphthylene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	9200	1300	8400	8400	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Phenanthrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	43000	1300	4000	4000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Fluoranthene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	61000	1300	5600	5600	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Pyrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	56000	1300	4000	4000	ug/Kg



## Sample Criteria Exceedences Report

Requested Criteria: GAM, RC

GBB79929

SampNo	LocCode	Acode	Phoenix Analyte	Criteria Units	ST	State Category	Criteria Name	Result	RL	Factored Criteria	Factored RL Criteria	Analysis Units
BB79940	LBG-PCB	\$8100SMR	Benz(a)anthracene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	28000	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Benz(a)anthracene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	28000	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Chrysene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	24000	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Benzo(b)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	33000	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Benzo(b)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	33000	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Benzo(k)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	14000	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Benzo(k)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	14000	1300	8400	8400	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Benzo(a)pyrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	28000	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Benzo(a)pyrene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	28000	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Indeno(1,2,3-cd)pyrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	8600	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Indeno(1,2,3-cd)pyrene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	8600	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Dibenz(a,h)anthracene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	2700	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Dibenz(a,h)anthracene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	2700	1300	1000	1000	ug/Kg
BB79940	LBG-PCB	\$8100SMR	Benzo(ghi)perylene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	9200	1300	4200	4200	ug/Kg
BB79940	LBG-PCB	\$ETPH_SM	Ext. Petroleum HC	mg/kg	CT	Pesticides, Pcb's, Tph, A	GA/GAA PMC (mg/kg)	1100	110	500	500	mg/Kg
BB79940	LBG-PCB	\$ETPH_SM	Ext. Petroleum HC	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	1100	110	500	500	mg/Kg
BB79943	LBG-PCB	\$PCB_SOXR	PCB-1016	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79943	LBG-PCB	\$PCB_SOXR	PCB-1221	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79943	LBG-PCB	\$PCB_SOXR	PCB-1232	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79943	LBG-PCB	\$PCB_SOXR	PCB-1242	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79943	LBG-PCB	\$PCB_SOXR	PCB-1248	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79943	LBG-PCB	\$PCB_SOXR	PCB-1254	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79943	LBG-PCB	\$PCB_SOXR	PCB-1260	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	15000	1700	1000	1000	ug/Kg
BB79943	LBG-PCB	\$PCB_SOXR	PCB-1262	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79943	LBG-PCB	\$PCB_SOXR	PCB-1268	mg/kg	CT	Pesticides, Pcb's, Tph, A	RES DEC (mg/kg)	ND	1700	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Phenanthrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	12000	270	4000	4000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Fluoranthene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	15000	270	5600	5600	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Pyrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	14000	270	4000	4000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Benz(a)anthracene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	5800	270	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Benz(a)anthracene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	5800	270	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Chrysene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	5100	270	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Benzo(b)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	6400	270	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Benzo(b)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	6400	270	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Benzo(k)fluoranthene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	1600	270	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Benzo(a)pyrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	4900	270	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Benzo(a)pyrene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	4900	270	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Indeno(1,2,3-cd)pyrene	mg/kg	CT	Semivolatile Organic Comp	GA/GAA PMC (mg/kg)	1800	270	1000	1000	ug/Kg
BB79945	LBG-PCB	\$8100SMR	Indeno(1,2,3-cd)pyrene	mg/kg	CT	Semivolatile Organic Comp	RES DEC (mg/kg)	1800	270	1000	1000	ug/Kg

# Sample Criteria Exceedences Report

Requested Criteria: GAM, RC

GBB79929

SampNo	LocCode	Acode	Phoenix Analyte	Criteria			Criteria Name	Result	RL	Factored	Factored	Analysis
				Units	ST	State Category				Criteria	RL	

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

# Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

**Laboratory Name:** Phoenix Environmental Labs, Inc. **Client:** LBG-PCB

**Project Location:** SATIN **Project Number:**

**Laboratory Sample ID(s):** BB79929, BB79930, BB79931, BB79932, BB79933, BB79934, BB79935, BB79936, BB79937, BB79938, BB79939, BB79940, BB79941, BB79942, BB79943, BB79944, BB79945, BB79946

**Sampling Date(s):** 5/1/2012

**RCP Methods Used:**

☐ 1311/1312    ☐ 6010    ☐ 7000    ☐ 7196    ☐ 7470/7471    ☐ 8081    ☐ EPH    ☐ TO15  
☒ 8082    ☐ 8151    ☐ 8260    ☒ 8270    ☒ ETPH    ☐ 9010/9012    ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

**Note:** For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

**I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.**

Authorized  
Signature: \_\_\_\_\_



Date: Tuesday, May 15, 2012  
Printed Name: Greg Lawrence  
Position: Assistant Lab Director



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# RCP Certification Report

May 15, 2012

SDG I.D.: GBB79929

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8270 Semi-volatile Organics:

Only the PAH constituents are reported as requested on the chain-of-custody.

Due to the concentration of target and non-target compounds not all of the requested criteria could be achieved.

## ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

**Instrument:** Au-fid1 05/10/12-3 (BB79940)

Initial Calibration (FID1 - ETPH\_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

**Printed Name** Jeff Bucko  
**Position:** Chemist  
**Date:** 5/10/2012

**Instrument:** Au-fid1 05/11/12-2 (BB79939)

Initial Calibration (FID1 - ETPH\_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

**Printed Name** Jeff Bucko  
**Position:** Chemist  
**Date:** 5/11/2012

**Instrument:** Au-xl1 05/10/12-2 (BB79945)

Initial Calibration (FIDXL1 ETPH\_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

**Printed Name** Jeff Bucko  
**Position:** Chemist  
**Date:** 5/10/2012



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# RCP Certification Report

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SDG ID.: GBB79929

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**Instrument:** Au-xl1 05/11/12-2 (BB79944)

Initial Calibration (FIDXL1 ETPH\_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30% RSD.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36

**Printed Name** Jeff Bucko  
**Position:** Chemist  
**Date:** 5/11/2012

## QC (Batch Specific)

----- Sample No: BB83135, QA/QC Batch: 200234 -----

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

## PAH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

**Instrument:** Chem06 05/09/12-1 (BB79939, BB79945)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

Initial Calibration (Chem06/BN\_0501):

Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:

Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: None.

**Printed Name** Damien Drobinski  
**Position:** Chemist  
**Date:** 5/9/2012

**Instrument:** Chem06 05/10/12-1 (BB79939, BB79940, BB79944, BB79945)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

Initial Calibration (Chem06/BN\_0501):



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## RCP Certification Report

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Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

### Continuing Calibration:

Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: None.

**Printed Name** Damien Drobinski  
**Position:** Chemist  
**Date:** 5/10/2012

### QC (Batch Specific)

----- Sample No: BB83320, QA/QC Batch: 200239 -----

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

### PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

**Instrument:** Au-ecd35 05/07/12-1 (BB79932, BB79933)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** Michael Hahn  
**Position:** Chemist  
**Date:** 5/7/2012

**Instrument:** Au-ecd5 05/07/12-1 (BB79945, BB79946)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** Michael Hahn  
**Position:** Chemist  
**Date:** 5/7/2012



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# RCP Certification Report

May 15, 2012

SDG ID.: GBB79929

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**Instrument:** Au-ecd5 05/08/12-1 (BB79937)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** Michael Hahn

**Position:** Chemist

**Date:** 5/8/2012

**Instrument:** Au-ecd5 05/09/12-1 (BB79937)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** Michael Hahn

**Position:** Chemist

**Date:** 5/9/2012

**Instrument:** Au-ecd7 05/08/12-1 (BB79934, BB79935, BB79937, BB79938, BB79939, BB79940, BB79941, BB79942, BB79943, BB79944)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** Michael Hahn

**Position:** Chemist

**Date:** 5/8/2012

**Instrument:** Au-ecd8 05/09/12-1 (BB79936)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



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## RCP Certification Report

May 15, 2012

SDG ID.: GBB79929

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**Printed Name** Michael Hahn  
**Position:** Chemist  
**Date:** 5/9/2012

**QC Comments:** QC Batch 00092 05/07/12 (BB79929, BB79930, BB79931, BB79932, BB79933, BB79934)

The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

### QC (Site Specific)

----- Sample No: BB79937, QA/QC Batch: 200093 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

### QC (Batch Specific)

----- Sample No: BB79915, QA/QC Batch: 200092 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BB82196, QA/QC Batch: 200052 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

### SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.





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## RCP Certification Report

May 15, 2012

SDG I.D.: GBB79929

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**Instrument:** Chem09 05/09/12-1 (BB79940, BB79944)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

Initial Calibration (Chem09/sv\_0427):

Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: 4-chloroaniline, Hexachlorocyclopentadiene, 2,4-dinitrophenol

The following compounds failed to meet the minimum required response factor: Hexachlorobenzene

Continuing Calibration:

Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: Benzaldehyde, Hexachlorocyclopentadiene, Pentachlorophenol

**Printed Name** Damien Drobinski  
**Position:** Chemist  
**Date:** 5/9/2012

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)





**Bobbi - Phoenixlabs**

**From:** Darrick Jones [djones@lbgt.com]  
**Sent:** Wednesday, May 09, 2012 10:46 AM  
**To:** clientservices@phoenixlabs.com  
**Cc:** Bobbi - Phoenixlabs  
**Subject:** RE: Phoenix Labs - GBB79929, SATIN - COC Acknowledgement

Please Add PAHs and ETPH as follows:

N-20 (0.3-1) - 79939  
 N-20 (1-1.5) - 79940  
 N-36 (1-1.2) - 79944  
 N-36 (2-3) - 79945

**From:** clientservices@phoenixlabs.com [mailto:clientservices@phoenixlabs.com]  
**Sent:** Thursday, May 03, 2012 2:41 PM  
**To:** Darrick Jones  
**Subject:** Phoenix Labs - GBB79929, SATIN - COC Acknowledgement

Darrick,

Delivery group GBB79929 (SATIN ) has been logged in for the following samples:

Phoenix Id	Client Id
BB79929	N-17 0-1
BB79930	N-17 1-2
BB79931	N-17 5-6
BB79932	N-17 6-7
BB79933	N-18 0-1
BB79934	N-18 1-2
BB79935	N-18 2-2.5
BB79936	N-18 5-5.4
BB79937	N-19 0.4-1
BB79938	N-19 5-5.5
BB79939	N-20 0.3-1
BB79940	N-20 1-1.5
BB79941	N-35 5.8-6
BB79942	N-35 6.5-7
BB79943	N-36 0.3-0.6
BB79944	N-36 1-1.2
BB79945	N-36 2-3
BB79946	N-36 5-6

5/9/2012